

NUCLEAR DIVISION NEWS

A Newspaper for the Employees of the Nuclear Division, Union Carbide Corporation

Volume 14/Number 24 December 1, 1983

UNION
CARBIDE

Question Box

Were Y-12 employees misled about prizes?

QUESTION: A number of Y-12 employees are concerned about the prizes given away at the recent Y-12 Family Day at Silver Dollar City. The in-plant promotions for the event indicated that the prizes to be awarded were on display at the Y-12 Cafeteria. The prizes shown in the display were very nice. The announcements on the plant PA system mentioned that a rifle also would be presented. However, a quilt and the rifle were the only two prizes awarded that resembled those on display. What happened to the other prizes that were displayed? They were much nicer than most of the prizes actually awarded, and some employees feel that there was a misrepresentation.

ANSWER: Silver Dollar City Day was the Y-12 Plant's first attempt to have a recreational event involving all Plant employees, retirees and their families. The items on display at the cafeteria were examples of the crafts available at Silver Dollar City, not the prizes to be drawn at the town meeting. The prizes were based on total tickets sold; Y-12 was eligible for \$1,320 in prizes donated by the Silver Dollar City company. Based on general feedback, Silver Dollar City Day was a big success. Its organizers apologize for any misunderstanding about the prizes.

ORNL 6247-83



In this issue . . .

ORNL's Frank Hensley describes the thrill of flying in his ultralight airplane, which he built from a kit. His story is found on page 5.

Other features:

Joint fusion venture page 3
News about people page 4
Recreation news page 6
Retirees' column page 7



UNITED WAY CHECKS PRESENTED — Union Carbide's corporate donation of \$32,000 will be divided among the 12-county Oak Ridge and 7-county Paducah areas where most Nuclear Division employees reside. General Campaign Chairman William H. Dodson recently presented checks to United Way representatives from the three Oak Ridge-area counties that will receive the largest proportions of funds. From left are: Dodson; Melly Koons, executive director for United Fund of Anderson County; McKinley Braden, president of the Board of Directors for United Way of Greater Knoxville, Inc.; and Leda Herron, executive director of Roane County United Way.

Corporate contribution made to local United Way programs

Union Carbide has made a corporate contribution of \$32,000 to United Way programs in the Oak Ridge and Paducah areas where most Nuclear Division employees reside.

During this year's campaign, employees at ORGDP, ORNL, Y-12 and PGDP made pledges and cash donations totaling \$1,108,536, with each facility exceeding its individual drive goal. The Corporate and employee contributions together total \$1,144,636, which will be divided among the 12-county Oak Ridge and 7-county Paducah areas covered by the Nuclear Division's payroll-deduction program.

Employees were asked to designate counties to benefit from their donations. The Corporation's annual contribution is divided among the specified counties based upon the percentage of employee giving from each county.

A total of \$1,061,378 will be distributed among the Oak Ridge-area counties as follows: Anderson, \$477,513; Knox, \$314,261; Roane, \$154,691; Loudon, \$48,672; Morgan, \$37,342; Blount, \$13,355; Campbell, \$6,305; Monroe, \$3,399; Cumberland, \$2,268; McMinn, \$1,409; Hamblen, \$914; and Rhea, \$710. Contributions of \$539 also have been designated to other counties in Tennessee.

In addition, the following Paducah-area counties will share a total of \$83,258:

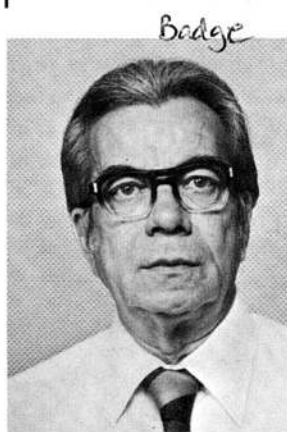
McCracken, \$60,783; Ballard, \$7,616; Graves, \$5,585; Massac, Ill., \$2,935; Carlisle, \$2,322; Marshall, \$1,847; and Mississippi, Mo., \$408. Cash contributed directly to agencies totaled \$1,762.

Pad 81631 10



PADUCAH PRESENTATION — Ralph Fenton (center) of the PGDP Technical Services Division, presents a donation to Elizabeth Bowden, Graves County United Way executive director, as Plant Manager Clayton Zerby looks on.

Company Service Anniversaries



William A. Blevins
Plant and Equipment
ORNL
40 years



Velma R. Moore
Operations
ORGDP
40 years

ORGDP

35 YEARS

Taylor G. Burke, Separation Systems; Ida M. Roper, Maintenance.

30 YEARS

Raymond S. Hensley, Maintenance; Willard J. Moore, Finance, Materials and Services; Robert G. Rudness, Separation Systems; Charles A. Sparks, Process Support; Martin L. Taylor, Engineering.

25 YEARS

Phillip S. Cates, Jackie A. Holt and Ralph G. Williams Jr.

20 YEARS

John G. Blankenship Jr. and Thomas R. Williams.

Y-12

30 YEARS

Alton G. Newman and William A. Smith, Maintenance; Horace Ramsey, Product Certification; Joe L. Hart, Security, Plant Protection and Utilities; and Chester H. Edwards and James L. Hicks, Fabrication.

25 YEARS

Charles E. Hatmaker and Walter D. Shultz.

PADUCAH

30 YEARS

Spencer E. Titus, Electrical Department.

ORNL

35 YEARS

Roger B. Quincy Jr., Analytical Chemistry.

30 YEARS

Robert L. Livesey, Fusion Energy; and Thomas C. Tucker, Computer Sciences.

25 YEARS

Thurman B. Anderson and James E. Bentley.

20 YEARS

Sekyn M. Ohr and Donald R. Tumlin.

Patent granted . . .

W. Scott Aaron and Thomas C. Quinby, both of ORNL, and Donald L. Kinser, "Cermets and Method for Making Same."

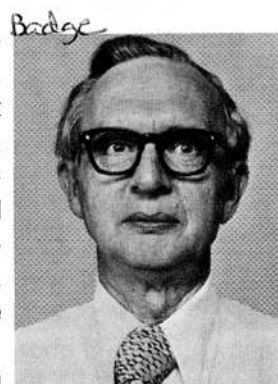
ORNL's Ralph Nicol dies in Knoxville

Ralph G. Nicol, a chemical engineer in ORNL's Chemical Technology Division, died November 13 at St. Mary's Hospital in Knoxville.

A 40-year Nuclear Division employee, Mr. Nicol lived at 208 Sweet Lane, Route 5, Clinton. He was a certified professional engineer and a member of the American Nuclear Society, Elks Club and Grace Lutheran Church.

Survivors include a son, David William Marshall of Kingston; two daughters, Elizabeth A. Evans of Powell and Donna N. Bishop of Jackson, Miss.; two brothers, John Nicol of Newtown, Conn., and Howard Nicol of Tulsa, Okla.; and seven grandchildren.

Funeral services were held at Grace Lutheran Church in Oak Ridge, with burial at Tennessee Valley Memorial Gardens in Claxton.



Mr. Nicol

Walter T. Carter dies in Knoxville hospital

Walter T. Carter, supervisor of the Finance and Budget Department, General Accounting Division at ORGDP, died November 18 in a Knoxville hospital.

A native of Englewood, Mr. Carter joined the Nuclear Division in October 1953. He was a recipient of the 25-year member award of the National Association of Accountants, the "outstanding president" award from Optimist International and the Lieutenant Governor's award in the Tennessee District.

He is survived by his wife, the former Kathleen Griffin, daughter, Tricia Lynne, and son, Tom, all of West Knoxville; and mother, Susie Carter of Englewood.

Funeral services were held at Mann's Heritage Chapel, with graveside services at Sunrise Cemetery. The family has asked that memorials be made to the American Cancer Society, c/o Eugene McClanahan, 408 Greenwood Drive, Clinton 37716.

ORNL has 'Inside Channel'

Television sets, newly mounted in various spots around ORNL, now make up a network of videotext display, tentatively named the "Inside Channel."

Like ORNL's "Inside Line," the video displays will offer news highlights, weather information and new job openings. Technical Calendar announcements and cafeteria menu listings also will be included. The sets are located in the cafeteria, 4500 South can- teen, 4500 North main and flagpole lobbies, West Portal, Fusion Energy Division and stationery stores in the 7000 area.

M. Clark Conrad dies at Paducah home

M. Clark Conrad, head of the Material Terminal Management Department at the Paducah Plant, died November 11 at his home at 1325 Charleston Street, Paducah. He had worked in the Nuclear Division since he was employed as a chemical engineer in 1972.

Mr. Conrad was a member of the Purchase Area Environment Forum and the Kentucky State Subcommittee for Environ-



Mr. Conrad

ment Quality. He also was a member of the board of directors of St. Paul Lutheran Church.

Survivors include his wife, Janean, son, John, daughter, Ginny, and stepmother, Virginia Conrad, all of Paducah; brothers, Mike Conrad of Nashville, Tenn., and Charles Campbell of Cincinnati; and sisters, Carolyn Palmer of Paducah and Dawn Cole of Atlanta.

Funeral services were held at St. Paul Lutheran Church, with burial at Mt. Carmel Cemetery. The family has requested that memorial contributions be made to St. Paul Lutheran Church.

UNION
CARBIDE

Nuclear Division News

UNION CARBIDE CORPORATION
NUCLEAR DIVISION
Post Office Box Y
Oak Ridge, Tenn. 37830

EDITOR (Y-12)

Cindy Ross Lundy, 574-1643

ORNL

Marilyn Z. McLaughlin, 574-4163

ORGDP

Ruby A. Miller, 574-8092

PADUCAH

Laura Trevor, Bell 208

Published every other week for
employees such as:



Dennis Brown of the ORNL Employee Relations Division.



Share the Ride ORGDP

CAR POOL MEMBERS WANTED from Karns Community to Portals 3 or 5, day shift. Tom Lemons, plant phone 4-8159; or Loren Lund, 6-2311.

CAR POOL MEMBERS WANTED from east end of Oak Ridge to any portal, day shift. Doug Janney, plant phone 4-9448; home phone 483-1619.

RIDE NEEDED from Rockwood area to Portal 2, day shift. Mike Garrett, plant phone 4-7903; home phone 354-2348.

CAR POOL MEMBER NEEDED from West Town Mall to Portals 1, 2 or 4, day shift. George, plant phone 6-0506; home phone 690-6856.

Y-12

NEED TO JOIN OR FORM CAR POOL from Sharp Road/Powell High School area, Powell, to West or Central Portal, 7:30-4. Sherrie Johnson, plant phone 4-2787; home phone 938-5295.

NEED TO JOIN OR FORM CAR POOL from Clinton area to Central Portal, 7:30-4. Debra Taylor, plant phone 4-2296; home phone 457-8288.

NEED RIDE OR TO JOIN CAR POOL from Sweetwater to Central Portal, 8-4:30. Gene Akens, plant phone 4-0236; home phone 337-9755.

NEED RIDE OR TO JOIN VAN POOL from Brookgreen Apartments area, Clinton, to Pine Ridge Portal, 7:30-4. Marilyn Hayden, plant phone 4-3799.

CAR POOL MEMBERS NEEDED from Beaver Ridge United Methodist Church parking lot, Oak Ridge Highway, to North Portal, 8-4:30. Bob Cooper, plant phone 4-3430; home phone 691-8411.

VAN POOL RIDERS NEEDED from Lake City and Clinton, 8-4:30. Joe Foust, plant phone 4-5889; home phone 426-2947.

BUS POOL RIDERS NEEDED from Knoxville, I-40 at Alcoa Highway (Expo Inn), 8-4:30. Joel Horton, plant phone 4-3121; home phone (Maryville) 983-9160.

CAR POOL MEMBERS NEEDED from Cedar Bluff/Middlebrook Pike area to Bear Creek Portal, 8-4:30. Gerald Russell, plant phone 4-3658; home phone 691-3475.

RIDE NEEDED from Sutter's Mill Apartments area, West Knoxville, to West or Central Portal, 8-4:30. Larry Belle, plant phone 4-3352.

VAN POOL RIDERS NEEDED from Andersonville, Norris, Clinton to any portal, 8-4:30. Charles Knowles, plant phone 4-2628; home phone (Norris) 494-9563.

NEED TO JOIN OR FORM CAR POOL from Cedar Lane area, Knoxville, to Central or North Portal, 8-4:30. George Dykeman, plant phone 6-4927; home phone 687-6657.

THREE RIDERS NEEDED from Harriman/Kingston area to any portal except East, 8-4:30. Bill McKinney, plant phone 4-1283; home phone 882-1827.

NEED RIDE OR TO JOIN CAR POOL from Tara Hills area, Oak Ridge, to North or Central Portal, 7:30-4 or 8-4:30. Myra, plant phone 4-1577.

ORNL

VAN POOL RIDERS NEEDED (room for two) from West Knoxville (Cedar Springs Shopping Center, Cedar Bluff, Middlebrook Pike, Vanosdale Road, Cloth World, Kingston Pike) to any portal except South, 8-4:30. Leon, plant phone 4-5723; home phone 693-3211.

BUS POOL MEMBERS NEEDED from the Burlington area, Asheville Highway, heading in the direction of I-640, stopping at Broadway and Tazewell Pike. The next stop is Papermill and Weisgarber, then to Cloth World on Kingston Pike. The next stop, via Kingston Pike, is Lovell Heights Shopping Center, then on via Pellissippi Parkway to all portals, 8-4:30. P. R. Long, plant phone 4-4154; or Twana Taylor, 4-7281.

RIDE NEEDED from Oak Ridge Highway between Karns and Solway to East Portal, 8:15-4:45. Peterson, plant phone 4-4483; home phone 690-3989.

VAN POOL RIDERS NEEDED from East Knoxville — down Middlebrook Pike, Cedar Bluff and back down Middlebrook Pike to Pellissippi Parkway to East and West Portals, 8-4:30. A. J. Boatwright, plant phone 4-6041; home phone 970-4231.

CAR POOL MEMBERS NEEDED from Louisiana Avenue area, Oak Ridge, to any portal, 8-4:30. Frank Foust, plant phone 4-6056; home phone 483-0350.

CAR POOL MEMBERS NEEDED from Campbell Station Road, Farragut, to East Portal, 8-4:30. Mark Goodman, plant phone 6-6712; home phone 966-1793.

BUS POOL RIDERS NEEDED from Maryville via Highway 95, with stops in Lenoir City. Joel Horton, plant phone 4-3121; home phone (Maryville) 983-9160.



COLLABORATIVE EFFORT — Earlier this year, DOE, ORNL and Atlanta University representatives initialed a letter of intent outlining plans for a collaborative effort in fusion energy research and development. Participating in the ceremonies, which led to the recent signing of a formal memorandum of understanding, were: seated, from left, Herman Postma, ORNL; Cleveland Dennard, AU; Joe La Grone, ORO; and Kofi B. Bota, AU. Standing, from left, are: Charles E. Bush, ORNL; Carlos R. Handy, AU; Murray W. Rosenthal, ORNL; Ronald E. Mickens, AU; Daniel E. Hastings, ORNL; James L. Reed, AU; and O. B. Morgan, ORNL.

With DOE support

ORNL, Atlanta University plan cooperative fusion activities

With support from DOE, Atlanta University and ORNL have formalized a cooperative program that will increase interactions between them in the field of fusion energy research.

First-year funds totaling \$200,000 from DOE's Office of Fusion Energy have been designated to cover a range of new cooperative and exchange activities that will involve university faculty researchers and graduate students and ORNL fusion energy staff and facilities.

The initiative supports President Reagan's executive order calling for increased assistance by federal agencies for historically black colleges and universities. ORO Manager Joe La Grone announced in May the selection of Atlanta University from among 90 black institutions originally considered by ORNL for the program.

Scope and details of the program are set forth in a Memorandum of Understanding signed by Kofi B. Bota, acting president of Atlanta University, and ORNL Director Herman Postma. Described in the Memorandum are six types of future cooperative activities, including: collaborative and subcontracted research projects, scholarly visits and

exchanges, student programs, computational assistance, access to and loans of scientific research equipment, and research participation by faculty and students.

While extending and strengthening existing fusion-related cooperation, the understanding also is designed to apply in the future to other scientific and technical fields where mutual interests are identified.

Technical coordinators for the program at ORNL are scientific staff members Daniel E. Hastings, Fusion Energy Division, chairman; and Dennis N. Clark, Patrick W. Gaffney, John K. Munro Jr. and John W. Wooten, all members of the Computer Sciences Division working with fusion program theorists. Charles E. Bush, Fusion Energy Division, has served as acting chairman during Hastings' absence. George E. Moore, head of the University Relations Office, is administrative coordinator.

ORNL carries out a significant portion of the national program in magnetic fusion research, including experimental and theoretical study of fusion plasma confinement and development of key technologies required for future power-producing fusion reactors.

Dorothy Sneed named ORGDP department head

Dorothy B. Sneed has been named superintendent of the Maintenance Engineering Department in ORGDP's Production Maintenance Division.

A native of Cleveland, Sneed received the BS and MS degrees in industrial engineering from the University of Tennessee. She was a member of Tau Beta Pi engineering and Alpha Pi Mu industrial engineering honorary societies and is registered as a professional engineer by the State of



Sneed

and her husband Wayne live in West Knoxville.

Tennessee.

Sneed joined the Nuclear Division in 1973 as an assembly engineer at Y-12 and transferred to ORGDP as a maintenance engineering supervisor in 1980. She has served as a part-time employment recruiter for six years. Her most recent assignment was as head of the Machining Department in ORGDP Fabrication and Plant Services.

Sneed is a member of the American Institute of Industrial Engineers (AIIE) and served as president of the East Tennessee Chapter in 1978-79. In 1978 she received the AIIE's Outstanding Industrial Engineer award. Sneed and her husband Wayne live in West Knoxville.

People . . .

ORNL 6014-83



Stallions

ORNL 8624



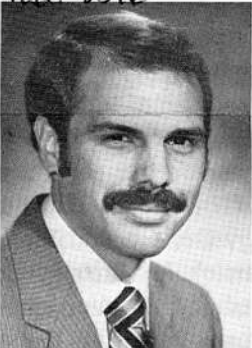
Vickery

Two become CPP's

Donald R. Stallions, safeguards coordinator in ORNL's Laboratory Protection Division, and Carlton J. Vickery, head of the security department at PGDP, have been designated as Certified Protection Professionals (CPP's) by the Professional Certification Board of the American Society for Industrial Security.

The CPP designation is granted to individuals who meet established criteria of professional knowledge and conduct. Candidates must have the qualifying educational and work experience and professional endorsement; affirm adherence to the CPP Code of Professional Responsibility; and pass a written examination.

ORNL 8596



Wagner

ORNL 7488-78



Slaughter

Certified by state board

Steve A. Wagner of the Paducah Plant's Engineering Division has been certified as a professional engineer by the Kentucky State Board of Registration for Professional Engineers.

Wagner, who specializes in structural engineering, earned his certification by passing a 16-hour written examination covering all phases of engineering practices. Applicants for certification must also have at least four years of work experience in engineering.

Elected as ASM trustee

Gerald M. Slaughter, manager of engineering materials in the Metals and Ceramics Division at ORNL, has been elected to a three-year term as a trustee of the American Society of Metals (ASM).

As trustee, Slaughter will assist in the planning and review of ASM activities and financial affairs, advising executive officers and presenting technical talks to local ASM chapters.

Two ORNL department heads named

Paul S. Rohwer and Hal M. Butler Jr. have been named department heads responsible for radiation safety in the Industrial Safety and Applied Health Physics Division at ORNL.

As head of the division's health physics department, Rohwer will supervise the continuing development, evaluation and application of state-of-the-art techniques of instrumentation to assess potential radiologic hazards and minimize exposures. He also will be responsible for all personnel radiation dosimetry and record-keeping.

Butler heads the radiation and safety survey department, which has day-to-day responsibility for on-site services in the areas of building and personnel radiation monitoring and safety. He supervises the staff responsible for regular building and area surveys to ensure a safe working environment.

A member of the ORNL staff since 1966, Rohwer has been head of the Health and Safety Research Division's technology assessments section since its establishment in 1977.

He holds a BA in physics from Drake University and the master's and PhD in radiation biology from the University of Rochester. He was a staff member of the former Health Physics Division and a group leader in the Environmental Sciences Division before his previous appointment.

A certified health physicist, Rohwer is 1983 president of the East Tennessee Chapter of the Health Physics Society. He, his wife Sandra, and their four children live in Oak Ridge.

ORNL 4878-83



Rohwer

ORNL 4880-83



Butler

Butler, also a certified health physicist, received the BS in engineering physics from the University of Tennessee, Chattanooga, and studied at Vanderbilt University on an Atomic Energy Commission fellowship in radiological physics before joining Union Carbide in 1958.

He has been a staff member in ORNL's Office of Operational Safety, served on the Laboratory's Accelerator and Radiation Sources Review Committee and was radiation safety officer for the High-Energy Neutron Radiation Experiment at the Nevada Test Site.

Butler is past chairman of the admissions committee of the Health Physics Society, a past president of its East Tennessee Chapter and a member of the American Physical Society and Sigma Pi Sigma physics honor society.

He and his wife, Mildred, live in Kingston.

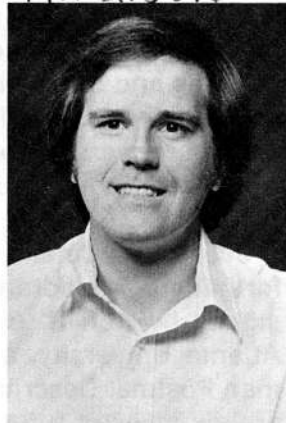
Four Y-12 promotions announced

Y-12 215898



Ferguson

Y-12 215846



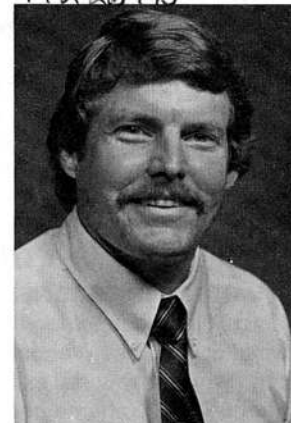
Montgomery

Y-12 215847



Roland

Y-12 215995



Spradlin

Four promotions have been announced at the Y-12 Plant. Jerry N. Ferguson, Phillip B. Montgomery and David C. Roland have been named planner estimators in the Maintenance Division, and David R. Spradlin has been named a supervisor in the Metal Preparation Division.

Ferguson, a native of Waynesville, N.C., attended Waynesville Electronics School and the University of Tennessee. He joined the Nuclear Division in 1969 as an electrician in Y-12 Maintenance.

He and his wife, Gwen, have three children. They live at 110 Dogwood Lane, Clinton.

Montgomery, who was born in Duluth, Minn., joined the Y-12 Maintenance Division staff as an electrician in 1977. He is currently attending Roane State Community College.

Montgomery and his wife, Deborah, live at 608 Spring Street, Kingston. They have a daughter.

Roland joined the Nuclear Division in 1979 as an electrician in the Y-12 Maintenance Division. He also attends Roane State Community College.

He and his wife, Ingrid, live at 313 Peterson Road, Knoxville. They have a son and a daughter.

A Knoxville native, Spradlin received a BA in business management from Maryville College. In 1977, he joined the ORGDP staff as a barrier operator in the Barrier Division. Spradlin transferred to the Y-12 Metal Preparation Division as a chemical operator in 1980.

He and his wife, Carolyn, have a son. They live at 213 Dell Road, Maryville.

ORNL's Frank Hensley 'soars like a bird' in ultralight

ORNL's Frank Hensley has discovered a more thrilling way to fly than sitting in the comfort of a giant commercial airliner. He simply "soars like a bird" in his ultralight airplane, which he built from a kit.

"I enjoy it because it's the nearest thing to having wings," said Hensley, a 31-year Carbide employee who is a craftsman in the Plant and Equipment Division.

To the observer on the ground, Hensley's flying machine might resemble a brightly colored dragonfly or a "Big Wheel" tricycle with wings. However, for Hensley, who "wasn't brave enough to try a hang glider or rich enough to afford my own Cessna," the ultralight offers the joint solution of allaying Hensley's piloting fears because of its safety features, and also allowing him to experience the excitement of bird-like flight.

For many years, Hensley enjoyed the hobby of flying radio-controlled model airplanes and gliders in competition. He had won trophies for his flying expertise from the ground but had never known the sensation of "becoming part of a flying machine."

Hensley learned about the economics and advantages of owning an ultralight at an experimental aircraft show last year in Tullahoma. He later purchased a Quicksilver MX kit, put it together in about 40 hours and had the manufacturer check it and attest to its readiness for a solo flight. The \$5,000 price tag also included the necessary aviation lessons for Hensley: Although he had taken flying lessons at the Oliver Springs airport before he was drafted during the Korean War, "soaring" required a new set of rules.

'Thoughts of what I would do if the engine quit do cross my mind, but I always keep an eye out for a place to land.'

Hensley described ultralight flying in the following manner: "On a calm summer afternoon, I make all the preflight checks, start the engine, taxi to the end of the runway (usually a pasture, not a paved one), warm the 30-horsepower engine and feel the power urging the wheels forward. After checking all control surfaces for operation, I apply full throttle. While the plane moves at about 25 miles per hour down the runway, I pull back on the 'joy stick,' which controls the rudder and elevator movement of the plane, and move 50 to 60 feet before becoming airborne.



CROW HOPPING — Hensley practices "crow hopping," which occurs when the plane is controlled so that it leaves the ground and touches down again. This exercise allows the pilot to get the feel of being airborne without actually taking flight. The ultralight can land on rough terrain and stop within 150 to 200 feet.



ULTRALIGHT EQUIPMENT — In Hensley's one-seat ultralight, the only instrumentation used is an air-speed indicator. A parachute, which is strapped across his chest, can be used in a life-threatening situation.



MAKING PREFLIGHT CHECKS — Hensley makes the necessary preflight checks before beginning a flight. The ultralight resembles a giant dragonfly or tricycle with wings. It weighs about 220 pounds and has a 32-foot wing span.

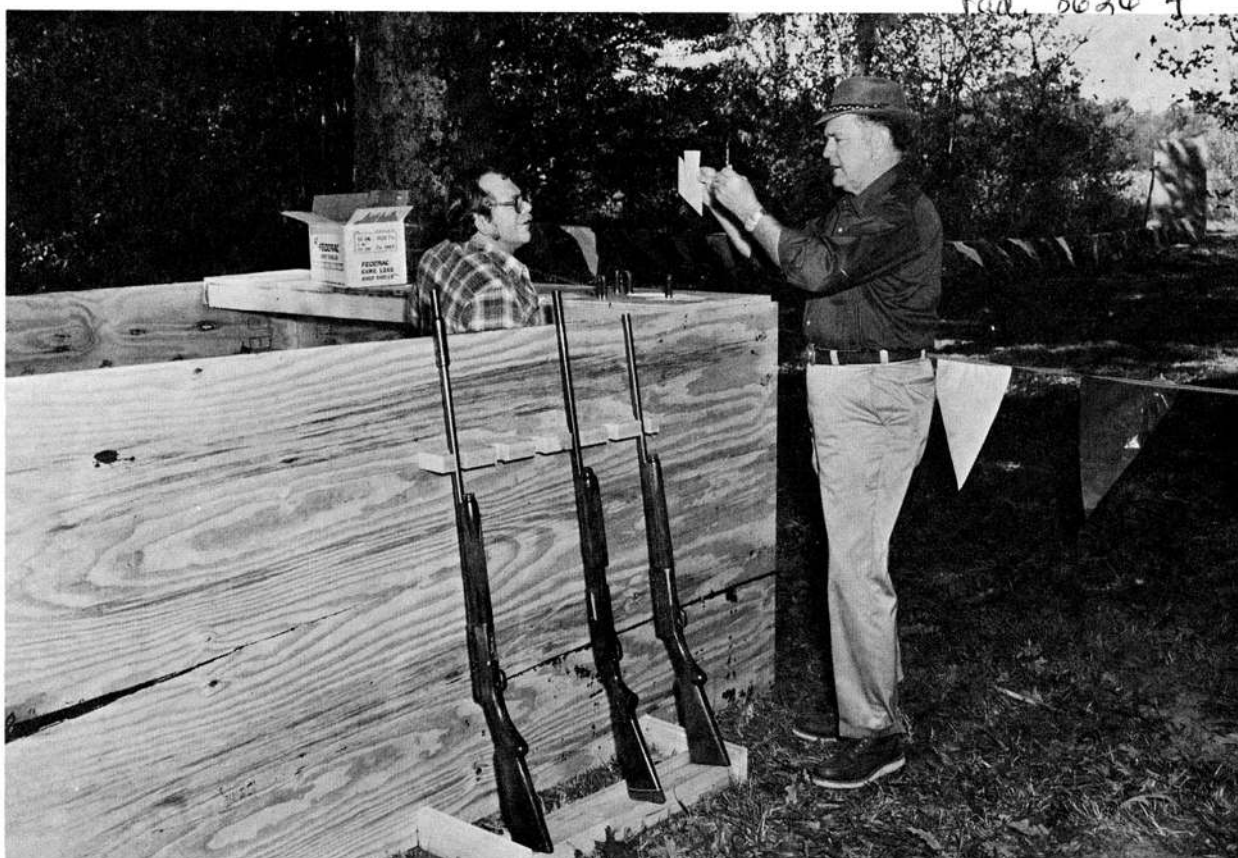
"I start the climb skyward at 30 to 35 m.p.h. and see the ground rapidly drop away. By cutting back on the throttle, I can level out at 1,000 feet and have a good view of the countryside. At times it seems as if the plane is not moving, although air currents create a rocking or bumpy-road sensation.

"Thoughts of what I would do if the engine quit do cross my mind, but I always keep an eye out for a place to land, which can be on rough terrain if necessary. After one and one-half to two hours of flying — the time it takes to use four gallons of gas — I cut the engine back to idle and begin a gliding approach to the landing site. At about 25 m.p.h., I near the ground, feel the plane flare out, touch down and come to a complete stop within about 50 feet," Hensley said.

Hensley likens assembling an ultralight from a kit to building a giant erector set. "All that's needed are basic handtools, because the necessary cutting, drilling, welding and sewing are completed by the manufacturer before delivery. There is a do-it-yourself instruction manual, and the aircraft parts are clearly marked.

"Ultralight flying is about as safe as the pilot chooses to make it," Hensley continued. "Flying the crafts in turbulent air is very risky, because they consist mainly of aluminum tubing and sailcloth and are very light, making them extremely vulnerable to gusty winds. Flying too close to other aircraft creates a whirlpool effect and can cause the ultralight to crash," he explained.

(Please turn to page 8)



PGDP TURKEY SHOOT — Steve Clement (left), Cascade Operations, and Fred Buckley, Electrical Department, compare targets to choose the best marksman during the recent Paducah Plant turkey shoot. Seventy winners received gift certificates from a local market toward the purchase of Thanksgiving dinners.

Nuclear Division bowling news

Union Carbide Monday Mixed...

The Pacesetters took over the lead in the Union Carbide Monday Mixed League, ahead of the Whoevers and 3 Tall-1 Short. Individual high scorers included Rudolph Long, 586 scratch series; Paul Armstrong, 242 scratch game; and Pat Thompson, 583, 246 scratch series and game.

KYX Monday Men's...

The Dynamics lead the KYX Monday Men's League, trailed by the Challengers and Hard Times. Recent highs were posted by Dave Cardwell, 721 series; and Roger Barnett, 288 game.

Y-12 Classic League...

Pendulum and the Has Beens are tied for the lead in the Y-12 Classic League with 29-15 records. Weekly

high scorers included Pete Parker, 667, 252 handicap series and game. Apollo Five rolled a team high handicap series of 3061.

K-25 Tuesday...

The City Slickers retained the lead in the K-25 Tuesday League, ahead of the Road Runners and All Stars. M. S. Ginsburg posted a 607, 221 scratch series and game and a 667 handicap series; and K. D. Estes rolled a 259 handicap game.

Carbide Wednesday Men's...

The Planners captured the lead in the Carbide Wednesday Men's League, followed by the ???'s and Alley Rads. Weekly high rollers included Elwood McCulley, 657 series; and Charlie Ferguson, 278 game. Bull Atkins' 197 average leads the league.

UCC Mixed...

The No-Names retained the top spot in recent UCC Mixed League action, followed by the Pacesetters and Gutter Dusters. Individual highs were posted by Ken Hall, 690 series; Bob Adams, 274 game; and Ellen Queener, 709, 281 series and game.

Special amplifiers installed at ORNL

Staff members of ORNL's Laboratory Protection Division recently installed amplifiers on the phones located outside the fenced area at East, South, North, 7000 and 7900 Portals. Each of these phones is now equipped with a dial to increase and decrease the volume of the speaker, giving hard-of-hearing employees better access to information or assistance for emergency or off-hour use.

Next issue . . .

The deadline for the next issue of *Nuclear Division News* is Tuesday, December 6. The issue will be dated December 15.

Ticket Application for Paducah Christmas Party

For children of
Union Carbide employees
(Ages 2-9)

Saturday, December 10, 9 a.m.
(Doors will open at 8:30 a.m.)

Arcade Theatre, Paducah

Employee's name _____ Badge number _____

Home address _____

Number of your children who will attend the party (please list)

(Boys)	(Girls)
Name _____ Age _____	Name _____ Age _____
Name _____ Age _____	Name _____ Age _____
Name _____ Age _____	Name _____ Age _____

Fill out form completely and return as soon as possible to the Recreation Office, Union Carbide Corporation, P.O. Box 1410, Paducah, KY 42001. Tickets will be mailed to parents at their home addresses.

Museum to feature holiday toy exhibits

A special exhibit, "Holiday Happiness with Trains and Dolls," will be presented in the lobby of the American Museum of Science and Energy December 12-31.

The Knoxville Model Railroaders Club will display electric trains and accessories built by club members, and an exhibit of "The Presidents' Wives" dolls also will be available for viewing.

Admission to the Museum is free. For more information on the exhibits or other programs, call 576-3218.

Ticket Application for Oak Ridge Christmas Parties

For children of
Union Carbide employees
(Ages 2-10 only)

Saturday, December 17

Employee's name _____

Home address _____

City _____ Zip _____

Plant address _____ Mail stop _____

Number of tickets (children's) _____

(adults) _____

Check time preferred

9 a.m. _____ 11 a.m. _____ 1 p.m. _____

Please mark first and second choice (write in space "1" or "2"), as only a limited number of tickets will be issued for each party. Preference will be given to early applicants and, if tickets for first choice are exhausted, tickets for second choice will be issued. Return this form promptly to the Carbide Recreation Office, Building 9109, Mail Stop 2, Y-12 Plant. Please apply for tickets before December 14.

DON'T MISS YOUR GOLDEN OPPORTUNITY!

The 401(k) Opportunity enables you to —

- Defer Federal income taxes on your savings
- Make your savings grow through various investment options
- Get the advantage of a 30-cents-on-the-dollar Company contribution
- Get favorable tax treatment when you take a final payout

To get your largest tax savings in 1984 you must start placing money in your 401(k) in January. See your benefit plans administrator for full details and enrollment forms.

GO FOR THE
GOLD!

Travel, parties in news for Union Carbide retirees

By Virginia Donahoe
UCRA president
576-1786

We now have additional information on the Caribbean cruise, including a revision from last month's article. We listed the price of an outside cabin with two beds as \$1225 in our previous announcement, but it should have read \$1295. (The earlier price was quoted by phone but the actual price is higher, according to the *Carla C* brochures.)

Our travel agent secured the 1983 rates for our cruise by signing a contract earlier this year, saving us \$100 to \$150 per person per cabin, according to 1984 rates! In addition, the travel agent will pay the port taxes, listed as an extra charge of \$35 per person in the 1984 brochure.

All outside cabin reservations are on the same deck. Inside cabins with two beds are on three decks, and there are actually two prices rather than one, as we mentioned last month. In addition to the cabins priced at \$1135, somewhat larger ones are available for \$1245. Please circle the price you prefer; if you have already made reservations for the \$1135 cabin and wish to change to a larger one, please write or call the UCRA office.

Here is a brief trip outline:

Day 1 — A "Bon Voyage" dinner, an optional night-club tour of San Juan and a midnight buffet.

Day 2 — At sea all day. Activities will include the Captain's "Welcome Aboard" cocktail and dinner party.

Day 3 — Curacao.

Day 4 — Venezuela.

Day 5 — St. Vincent.

Day 6 — Guadeloupe, including French shops, fabulous beaches and the Captain's Gourmet Dinner that night.

Day 7 — St. Thomas, where passengers may purchase up to \$800 worth of duty-free goods.

Day 8 — Arrival in San Juan.

Paducah party news

All PGDP retirees, employees and spouses are invited to attend a Christmas banquet Thursday, December 15, at the new Executive Inn Riverfront. The dinner, which begins at 5 p.m., is sponsored by the Retirees' Association.

Each Association member is asked to bring a Christmas decoration, such as a candle, wreath or flower arrangement to add to the holiday spirit. A Christmas tree will complete the decor.

After dinner, Jim Randolph, music director at Paducah's Broadway Church of Christ, and his wife, Lavon, will lead a Christmas sing-along. For more information, contact Association President John Hornsby at 442-1752.

Camper-Trailer Travel Club

At our recent get-together at Cove Lake, we selected a three-member committee to prepare a draft of by-laws to be discussed at the March club outing.

The committee members are W. J. Williams, Floyd Kyte and Ralph Redmon. Watch future columns for more information.

Christmas party

The Oak Ridge retirees' Christmas party is set for Thursday, December 8, at the Oak Ridge Elks' Club. The cost is \$3 per person, and the Back Door Band will play from 8 p.m. until midnight.

Only the first 200 reservations will be accepted. For reservations, call Don or Ann Matlock, 483-6733, or the UCRA office. Retirees may bring friends if reservations are still available.

Travel meeting

A travel meeting will be held at 7 p.m. January

11, at the Oak Ridge Senior Center. All of our 1984 trips will be discussed, as well as plans for 1985. Suggestions for future trips will be welcome.

Special Olympics volunteers

The organizers of the local Special Olympics are in need of volunteers to keep score for the bowling events, set for December 6 and 7 at Tri-County Lanes.

The events begin at 12:30 p.m. each day. To volunteer, please call the UCRA office.

Bowling news

High scores during the past four weeks include:

Men's — High scratch game and handicap game, Jim Conner, 231 and 258; high scratch series, Ernie Bogle, 574; and high handicap series, Bob Adkins, 681.

Women's — High scratch game, handicap game and handicap series, Edna Kyle, 200, 251 and 659; and high handicap game, Emma Taylor, 259.

AARP holiday party

An invitation has been extended to Carbide retirees to attend the AARP Christmas party, scheduled for 5:30 p.m., Thursday, December 15, at the Oak Ridge Senior Center. Participants are asked to bring a salad, vegetable dish or dessert, and turkey and ham will be provided at a cost of \$1 per person.

For reservations, call Anna Cebrat, 483-0279, or Viola Erickson, 482-6050. The deadline is December 9.

Trip Reservation Form

Caribbean Cruise

Make checks payable to: U.S. Travels

Mail to: UCRA, P.O. Box 3501, Oak Ridge, TN 37830

NAME: _____

ROOMMATE: _____

ADDRESS: _____

ADDRESS: _____

TELEPHONE: (Home) _____

(Work) _____

Please enclose deposit of \$100 per person.

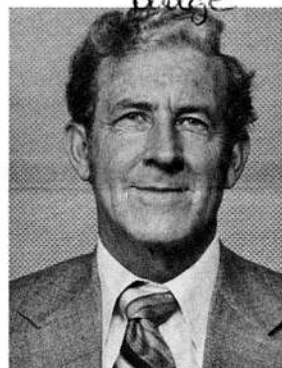
Cabin choice:

\$1135 or \$1245 - inside cabin for two _____

\$1295 - outside cabin for two _____

\$945 - upper and lower bunk _____

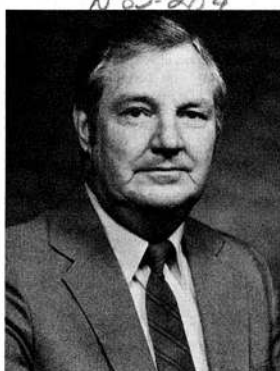
Recent Retirements



Edwin M. Kidd
Computer Sciences
ORNL
29 years service



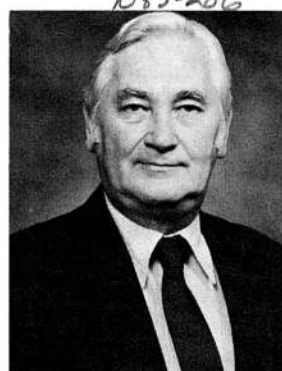
Louie C. Henley
Industrial Safety and
Applied Health Physics
ORNL
35 years service



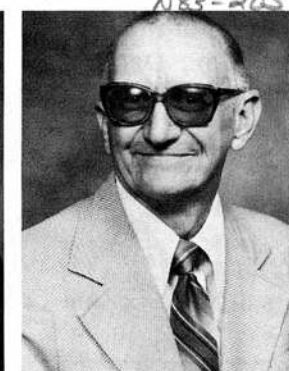
James E. Pickell
Industrial Engineering
Y-12
27 years service



Horace M. Thompson
Biology
ORNL
33 years service



Jerome Cogswell
Metal Preparation
Y-12
30 years service



Byron D. North
Engineering
Y-12
32 years service



William Jordan
Maintenance
ORGDP
37 years service



Roy L. Sampsel
Maintenance
Y-12
34 years service



Paul E. Scott
Computer Sciences
ORGDP
32 years service



Charles Esmond Williams
Computer Sciences
ORGDP
29 years service

Ultralight flying

(Continued from page 5)

Another danger is stalling on either a takeoff or landing. If there is a problem with the plane's wing that would prevent landing, a specially designed parachute can be released to lower both the pilot and the plane. However, the parachute must be deployed before descending to an altitude of 500 to 1,000 feet and should only be used in a life-threatening situation.

Hensley's one-seater does not require a pilot's license, but Federal Aviation Administration (FAA) regulations do require licenses for the two-seaters. The FAA also has placed restrictions on ultralight flying that govern the plane's weight, maximum flying speed, stall speed, fuel carriage, exclusion from controlled airspace and flying at night.

Although Hensley's plane is "just for pleasure," the ultralight has become a useful tool for scientists wishing to study sharks or animal migration patterns. They also have potential military uses, because they are nearly invisible on a radar screen and might be adapted for pilotless control on hazardous missions. In California, police have used them for surveillance, and farmers can also use them to spray crops with insecticides or fertilizers.

Hensley's wife Barbara and their two sons (Mike is an electrician at Y-12 and Brian is a geologist) have completed their ground training but will have to wait until spring to solo. Summer and early fall are the best seasons to fly because there is less danger of hypothermia.

With the cold winter months looming ahead, Hensley recently disassembled his plane — a process which required only about 40 minutes — transported it home on top of a trailer, and has stored it until warmer temperatures return. Then he can again experience one of man's oldest dreams — the sensation of viewing the earth from an eagle's domain.

— M.Z.M.

Y-12 blood drive set

A Medic blood drive will be held at the Y-12 Plant December 6, 7, 8 and 9 in the large conference room at the cafeteria, Building 9711-5.

Hours for the drive are: December 6, 8 a.m.-4:45 p.m.; December 7, 6 a.m.-4:45 p.m.; December 8, 4 a.m.-4:45 p.m.; and December 9, 8 a.m.-4:45 p.m.

George Yarborough of Security, Plant Protection and Utilities is chairing the drive, and George Gregory of the Fabrication Division is cochairman. Neal and Athala Dow are serving as retiree volunteer coordinators.



Y-12 PRESENTS HANDICAPPED EMPLOYMENT AWARDS — Six Y-12 employees and three Plant groups were recognized recently at Handicapped Awareness Week ceremonies. Richard Crowe of the Employee Relations Division was named Y-12 Handicapped Employee of the Year, and the following individuals and groups were honored by the Affirmative Action Office for their efforts in the employment of the handicapped: Harold Alvey and Stanley Minge, Fabrication Division; Lynn Denton, Elsie McCarthy and Mary Steele, Computer Sciences; the Fabrication Division; the Specimen Shop, Fabrication Division; and the Data Entry Group, Computer Sciences. Present at the ceremony were, standing, from left, Art Hall, Specimen Shop; Alvey; Hosie Simmons, Y-12 Affirmative Action coordinator; Helen Brown, Computer Sciences; Steele; McCarthy; James C. White, Y-12 Technical and Plant Protection manager; Denton; L. A. Dean, Fabrication Division manager; and Minge. Crowe is seated in front.

Process Support promotes Higgins, Kidd

Two appointments have been announced in the Process Support Division at ORGDP. Robert L. Higgins has been named manager of the Process and Long-Range Technical Support Program, and George J. Kidd Jr. is head of the Materials and Chemistry Technology Department.

Higgins, a native of Charlestown, Mass., received his BS degree in mechanical engineering from New York University. He is a member of Pi Tau Sigma honorary society.

He joined Union Carbide in 1948 and formerly served as manager of the Barrier Technology Department.

Higgins and his wife, Jane, have a son and a daughter. They live on Carnegie Drive in Oak Ridge.

Kidd was born in Grand Rapids, Mich., and grew up in Chicago. He received his bachelor's and master's degrees in mechanical engineering from Northwestern University and his PhD in engineering sciences from the University of Tennessee. He joined Union Carbide in 1957 as an associate development engineer in the Development Division at the Y-12 Plant.



Higgins



Kidd

Kidd is a member of Sigma Xi, Tau Beta Pi and Pi Tau Sigma honorary societies and is a former chairman of the Oak Ridge Section of the American Society of Mechanical Engineers and of the Technical Committee on Heat Transfer Equipment, Heat Transfer Division, of the American Society of Mechanical Engineers. He also is a member of the American Institute of Chemical Engineers and the National Society of Professional Engineers.

He and his wife, Judith, have two daughters and a son. They live on Windham Road in Oak Ridge.

Safety Scoreboard

Time worked without a lost-time accident through November 22:

Y-12 Plant.....	9 Days	327,000 Employee-Hours
ORGDP	190 Days	4,118,291 Employee-Hours
ORNL	118 Days	2,611,503 Employee-Hours
Paducah.....	1,211 Days	9,466,322 Employee-Hours

SAFETY TIP: When driving across multiple-track railroad crossings, remember that one train can hide another. Be sure all tracks are clear before you cross.

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